

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/S26, 816  
Source: IFWD  
Date Processed by STIC: 07/10/2006

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

DATE: 07/10/2006

PATENT APPLICATION: US/10/526,816

TIME: 09:51:04

Input Set : F:\70292.011000.ST25.txt

Output Set: N:\CRF4\07102006\J526816.raw

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3 <110> APPLICANT: Anwar, Azlinda
4      August, Thomas
5      Too, Heng-Phon
7 <120> TITLE OF INVENTION: Strand-Specific Detection and Quantification
9 <130> FILE REFERENCE: 70292-011000
11 <140> CURRENT APPLICATION NUMBER: 10/526,816
C--> 12 <141> CURRENT FILING DATE: 2005-03-04
14 <160> NUMBER OF SEQ ID NOS: 29
16 <170> SOFTWARE: PatentIn version 3.3
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 18
20 <212> TYPE: DNA
21 <213> ORGANISM: Artificial
23 <220> FEATURE:
24 <223> OTHER INFORMATION: Reverse primer (ActinS) used in comparative PCR experiment.
26 <400> SEQUENCE: 1
27 gagacaacat tggcatgg                                     18
30 <210> SEQ ID NO: 2
31 <211> LENGTH: 25
32 <212> TYPE: DNA
33 <213> ORGANISM: Artificial
35 <220> FEATURE:
36 <223> OTHER INFORMATION: Oligonucleotide utilized in reverse transcription reaction of
37      beta-actin transcripts.
39 <400> SEQUENCE: 2
40 acagcacact ttgtagagac ctggg                               25
43 <210> SEQ ID NO: 3
44 <211> LENGTH: 34
45 <212> TYPE: DNA
46 <213> ORGANISM: Artificial
48 <220> FEATURE:
49 <223> OTHER INFORMATION: Exemplary stem-loop chimeric oligonucleotide designed to have
a
50      stable stem-loop secondary structure under transcription reaction
51      conditions.
53 <400> SEQUENCE: 3
54 tctacaaaga cagcacactt ttagagacc tggg                     34
57 <210> SEQ ID NO: 4
58 <211> LENGTH: 19
59 <212> TYPE: DNA
60 <213> ORGANISM: Artificial
62 <220> FEATURE:
63 <223> OTHER INFORMATION: Exemplary forward hemi-nested primer utilized in comparative
PCT

```

64 experiment.

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66 <400> SEQUENCE: 4  
67 agcacacttt gtagagacc 19  
70 <210> SEQ ID NO: 5  
71 <211> LENGTH: 30  
72 <212> TYPE: DNA  
73 <213> ORGANISM: Artificial  
75 <220> FEATURE:  
76 <223> OTHER INFORMATION: Exemplary stem-loop chimeric RT oligonucleotides (SCRO) made  
in  
77 accordance with the teachings of the invention.  
79 <400> SEQUENCE: 5  
80 tcaccgttcc ccgccgtcgg tgggcgctac 30  
83 <210> SEQ ID NO: 6  
84 <211> LENGTH: 19  
85 <212> TYPE: DNA  
86 <213> ORGANISM: Artificial  
88 <220> FEATURE:  
89 <223> OTHER INFORMATION: Exemplary basis for designing exemplary PCR primer, based on  
Den  
90 2 genome.  
92 <400> SEQUENCE: 6  
93 tgaaacgcga gagaaaccg 19  
96 <210> SEQ ID NO: 7  
97 <211> LENGTH: 12  
98 <212> TYPE: DNA  
99 <213> ORGANISM: Artificial  
101 <220> FEATURE:  
102 <223> OTHER INFORMATION: Intermediate sequence based on SEQ.ID.NO.6 used for  
exemplary  
103 primer design.  
105 <400> SEQUENCE: 7  
106 tgaaacgcga ga 12  
109 <210> SEQ ID NO: 8  
110 <211> LENGTH: 10  
111 <212> TYPE: DNA  
112 <213> ORGANISM: Artificial  
114 <220> FEATURE:  
115 <223> OTHER INFORMATION: Sequence based upon SEQ.ID.NO.7 used in exemplary primer  
design.  
117 <400> SEQUENCE: 8  
118 tgaaacgcga 10  
121 <210> SEQ ID NO: 9  
122 <211> LENGTH: 13  
123 <212> TYPE: DNA  
124 <213> ORGANISM: Artificial  
126 <220> FEATURE:  
127 <223> OTHER INFORMATION: DNA sequence of SEQ.ID.NO.8 having GAA added to the 3' end,  
thus  
128 raising the Tm.  
130 <400> SEQUENCE: 9  
131 tgaaacgcga gaa 13  
134 <210> SEQ ID NO: 10  
135 <211> LENGTH: 17

136 <212> TYPE: DNA

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137 <213> ORGANISM: Artificial

139 <220> FEATURE:

140 <223> OTHER INFORMATION: Exemplary hemi-nested PCR primer having 3' protruding  
portion and

141 4 Gs added to the 5' end of the sequence provided in SEQ.ID.NO.9.

143 <400> SEQUENCE: 10

144 ggggtgaaac gcgagaa 17

147 <210> SEQ ID NO: 11

148 <211> LENGTH: 14

149 <212> TYPE: DNA

150 <213> ORGANISM: Artificial

152 <220> FEATURE:

153 <223> OTHER INFORMATION: Exemplary SCRO sequence.

155 <400> SEQUENCE: 11

156 ggggtgaaac gcga 14

159 <210> SEQ ID NO: 12

160 <211> LENGTH: 6

161 <212> TYPE: DNA

162 <213> ORGANISM: Artificial

164 <220> FEATURE:

165 <223> OTHER INFORMATION: Deleted portion of SEQ.ID.NO.5 providing another exemplary  
convertible oligonucleotide SEQ.ID.NO.28.

168 <400> SEQUENCE: 12

169 tcaccg 6

172 <210> SEQ ID NO: 13

173 <211> LENGTH: 18

174 <212> TYPE: DNA

175 <213> ORGANISM: Artificial

177 <220> FEATURE:

178 <223> OTHER INFORMATION: Forward primer for amplifying Dengue 2 NS2A region.

180 <400> SEQUENCE: 13

181 ggacatgggc agattgac 18

184 <210> SEQ ID NO: 14

185 <211> LENGTH: 18

186 <212> TYPE: DNA

187 <213> ORGANISM: Artificial

189 <220> FEATURE:

190 <223> OTHER INFORMATION: Reverse primer for amplifying Dengue 2 NS2A region.

192 <400> SEQUENCE: 14

193 tccttttctt gttggttc 18

196 <210> SEQ ID NO: 15

197 <211> LENGTH: 21

198 <212> TYPE: DNA

199 <213> ORGANISM: Artificial

201 <220> FEATURE:

202 <223> OTHER INFORMATION: Forward primer directed to envelope region of Dengue genome.

204 <400> SEQUENCE: 15

205 aggatgggga aatggatgtg g 21

208 <210> SEQ ID NO: 16

209 <211> LENGTH: 21

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210 <212> TYPE: DNA
211 <213> ORGANISM: Artificial
213 <220> FEATURE:
214 <223> OTHER INFORMATION: Reverse primer directed to envelope region of Dengue genome.
216 <400> SEQUENCE: 16
217 ttctgtggcc cctgtgagtg c                                21
220 <210> SEQ ID NO: 17
221 <211> LENGTH: 24
222 <212> TYPE: DNA
223 <213> ORGANISM: Artificial
225 <220> FEATURE:
226 <223> OTHER INFORMATION: Forward primer to NS2A region of Dengue genomic RNA.
228 <400> SEQUENCE: 17
229 acctgggaag agtgatgggtt atgg                                24
232 <210> SEQ ID NO: 18
233 <211> LENGTH: 24
234 <212> TYPE: DNA
235 <213> ORGANISM: Artificial
237 <220> FEATURE:
238 <223> OTHER INFORMATION: Reverse primer to NS2A region of Dengue genomic RNA.
240 <400> SEQUENCE: 18
241 atggtctctg gtatgggtgct ctgg                                24
244 <210> SEQ ID NO: 19
245 <211> LENGTH: 18
246 <212> TYPE: DNA
247 <213> ORGANISM: Artificial
249 <220> FEATURE:
250 <223> OTHER INFORMATION: Exemplary hemi-nested strand-specific PCR primer.
252 <400> SEQUENCE: 19
253 cgttccccgc cgtcggtg                                18
256 <210> SEQ ID NO: 20
257 <211> LENGTH: 18
258 <212> TYPE: DNA
259 <213> ORGANISM: Artificial
261 <220> FEATURE:
262 <223> OTHER INFORMATION: Exemplary hemi-nested strand-specific PCR primer.
264 <400> SEQUENCE: 20
265 tcaactgcatt tgggacgc                                18
268 <210> SEQ ID NO: 21
269 <211> LENGTH: 20
270 <212> TYPE: DNA
271 <213> ORGANISM: Artificial
273 <220> FEATURE:
274 <223> OTHER INFORMATION: Forward primer to actin transcript.
276 <400> SEQUENCE: 21
277 acaacggctc cggcatgtgc                                20
280 <210> SEQ ID NO: 22
281 <211> LENGTH: 20
282 <212> TYPE: DNA

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283 <213> ORGANISM: Artificial
285 <220> FEATURE:
286 <223> OTHER INFORMATION: Reverse primer to actin transcript.
288 <400> SEQUENCE: 22
289 ggtcatcttt tcacggttg                                     20
292 <210> SEQ ID NO: 23
293 <211> LENGTH: 12
294 <212> TYPE: DNA
295 <213> ORGANISM: Artificial
297 <220> FEATURE:
298 <223> OTHER INFORMATION: Portion of SEQ.ID.NO.5 complementary to the negative
replicative
299      strand of Dengue.
301 <400> SEQUENCE: 23
302 ggtgggcgct ac                                           12
305 <210> SEQ ID NO: 24
306 <211> LENGTH: 11
307 <212> TYPE: DNA
308 <213> ORGANISM: Artificial
310 <220> FEATURE:
311 <223> OTHER INFORMATION: Portion of another exemplary SCRO, complementary to the
positive
312      replicative strand of RSV.
314 <400> SEQUENCE: 24
315 cacggtgaca c                                           11
318 <210> SEQ ID NO: 25
319 <211> LENGTH: 21
320 <212> TYPE: DNA
321 <213> ORGANISM: Artificial
323 <220> FEATURE:
324 <223> OTHER INFORMATION: RSV MP2-specific sense primer.
326 <400> SEQUENCE: 25
327 ctcttggtat agttggagtg c                                21
330 <210> SEQ ID NO: 26
331 <211> LENGTH: 21
332 <212> TYPE: DNA
333 <213> ORGANISM: Artificial
335 <220> FEATURE:
336 <223> OTHER INFORMATION: RSV antisense primer.
338 <400> SEQUENCE: 26
339 tcaccgttcc cgcgcgtcca c                                21
342 <210> SEQ ID NO: 27
343 <211> LENGTH: 21
344 <212> TYPE: DNA
345 <213> ORGANISM: Artificial
347 <220> FEATURE:
348 <223> OTHER INFORMATION: RSV MP2-specific antisense primer.
350 <400> SEQUENCE: 27
351 ttggagaaat tgttgagtgg c                                21
354 <210> SEQ ID NO: 28
355 <211> LENGTH: 24

```



RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/526,816

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Input Set : F:\70292.011000.ST25.txt  
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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27  
Seq#:28,29

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/526,816

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Input Set : F:\70292.011000.ST25.txt

Output Set: N:\CRF4\07102006\J526816.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date